Applicants thank the Examiner for the thorough examination of the

application.

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Claims 1, 3-10, 12, 13, 15-18 and 21-27 are pending in this application.

Claims 1, 10 and 25 are independent. Claims 26 and 27 are added. No new

matter is involved.

Reconsideration of the present application is respectfully requested.

Claim Status Designation

The Office Action states that claims 1, 3-10, 12, 13, 15-18 and 21-25 are

amended. Applicants respectfully disagree because the Reply filed on April 28,

2005 did not amend the claims in any manner whatsoever. Clarification is

requested.

Specification Objections

The Office Action objects to the specification. The Office Action indicates

that the language "applying a data signal to the pixel electrode" on page 6, lines 15

and 16 of the main body of Applicants' specification is somehow improper.

Applicants respectfully submit that the language objected to is completely

proper to one of ordinary skill in the art. An active matrix liquid crystal display

(AMLCD) has to display data provided to it, and the data is supplied to the AMLCD

via a data line. The specification does not state that the data is provided to the

pixel electrodes by a direct connection between a data line and a pixel electrode,

as the Examiner appears to believe. Moreover, as is well known in the art,

capacitive coupling between a data line and a pixel electrode, sometimes referred

to as crosstalk, may also exist in AMLCDs. One of ordinary skill in the art

recognizes this and views Applicants' disclosure with this in mind.

Applicants fails to see anything unclear about, or otherwise wrong with,

stating that "a storage capacitor 18 provided between the pixel electrode 14 and

the gate line 4 at the previous stage plays a role to prevent a voltage variation in

the pixel electrode 14 by charging a voltage in a period at which a gate high

voltage is applied to the previous-stage gate line 4 and discharging the charged

voltage in a period at which a data signal is applied to the pixel electrode 14," as

is stated on page 6, lines 9-16.

Nor has the Office Action explained why there is anything wrong with this

disclosure.

One of ordinary skill in the art realizes that if the data signal were not

applied to the pixel electrode, then the pixel electrode could not display any data

and the AMLCD would be useless. One of ordinary skill in the art also realizes

that the data signal is applied, in an active matrix LCD, via a drain electrode of an

active matrix transistor, and that there is capacitive coupling of the data signal as

well.

Why the Office Action takes issue with the language of page 6, lines 15 and

16 is unclear in view of the skill and knowledge of one of ordinary skill in the art

to whom the specification is directed.

Applicants find nothing in using the language "applying" in this context

repugnant to the usual meaning of the term because one of ordinary skill in the

art fully understands what is meant by applying a data signal to a pixel electrode,

as explained above.

Accordingly, Applicants respectfully submit that there is nothing unclear or

otherwise wrong with their specification on page 6, in lines 15 and 16 and that

this objection is improper and should be withdrawn.

Claim Objections

Claims 1 and 10 stand objected to for reciting "signal to a pixel electrode" in

two locations in each of claims 1 and 10. The Office Action alleges that this is

incorrect because "[O]nly one signal is applied to the pixel electrode, and it is

applied by the drain electrode of the transistor."

Applicants respectfully disagree with this allegation. Applicants apply a

data signal to the pixel electrode - see page 6 of Applicants' specification, which

clearly discloses "a data signal is applied to the pixel electrode" (lines 15 and 16),

for example, and Applicants apply a voltage signal to the pixel electrode via the

gate line due to the fact that the gate dummy pattern defines a second storage

capacitor along with the pixel electrode and, as a result, a capacitance value of the

second storage capacitor caused by the gate dummy pattern is added to the

existing storage capacitor so that a voltage at the pixel electrode can remain more

stable (paragraph bridging pages 7 and 8 of Applicants' specification).

Applicants presented this argument in the Reply filed on April 28, 2004 and

respectfully submit that it is as valid now as it was then.

Accordingly, withdrawal of this objection is respectfully requested.

Rejection under 35 U.S.C. §103(a)

Claims 1, 3, 5, 6, 8, 10, 12, 15, 17 and 21-24 are rejected under 35 U.S.C.

§103(a) as being unpatentable over U.S. Patent No. 6,429,909 to Kim et al. (Kim)

in view of U.S. Patent No. 6,313,889 to Song et al (Song). This rejection is

respectfully traversed.

Because the rejection is based on 35 U.S.C. §103, what is in issue in such a

rejection is "the invention as a whole," not just a few features of the claimed

invention. Under 35 U.S.C. §103, "[a] patent may not be obtained . . . if the

differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said

subject matter pertains." The determination under section 103 is whether the

claimed invention as a whole would have been obvious to a person of ordinary skill

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in the art at the time the invention was made. See In re O'Farrell, 853 F.2d 894, 902, 7 USPO2d 1673, 1680 (Fed. Cir. 1988). In determining obviousness, the Examiner must explain what the differences between the claimed invention and the prior art are and provide objective factual evidence to support a conclusion that it would be obvious to one of ordinary skill in the art to achieve the claimed invention, which includes those missing features.

Furthermore, in rejecting claims under 35 U.S.C. §103, it is incumbent on the Examiner to establish a factual basis to support the legal conclusion of obviousness. See, In re Fine, 837 F.2d 1071, 1073, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988). In so doing, the Examiner is expected to make the factual determinations set forth in Graham v. John Deere Co., 383 U.S. 1, 17, 148 USPQ 459, 467 (1966), and to provide a reason why one of ordinary skill in the pertinent art would have been led to modify the prior art or to combine prior art references to arrive at the claimed invention. Such reason must stem from some teaching, suggestion or implication in the prior art as a whole or knowledge generally available to one having ordinary skill in the art. Uniroyal Inc. v. F-Wiley Corp., 837 F.2d 1044, 1051, 5 USPO2d 1434, 1438 (Fed. Cir. 1988), cert. denied, 488 U.S. 825 (1988); Ashland Oil, Inc. v. Delta Resins & Refractories, Inc., 776 F.2d 281, 293, 227 USPQ 657, 664 (Fed. Cir. 1985), cert. denied, 475 U.S. 1017 (1986); ACS Hospital Systems, Inc. v. Montefiore Hospital, 732 F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. Cir. 1984). These showings by the Examiner are an essential part Application No.: 09/677,870

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of complying with the burden of presenting a prima facie case of obviousness.

Note, In re Oetiker, 977 F.2d 1443, 1445, 24 USPQ2d 1443, 1444 (Fed. Cir. 1992).

The mere fact that the prior art may be modified in the manner suggested by the

Examiner does not make the modification obvious unless the prior art suggested

the desirability of the modification. In re Fritch, 972 F.2d 1260, 1266, 23 USPQ2d

1780, 1783-84 (Fed. Cir. 1992). To establish prima facie obviousness of a claimed

invention, all the claim limitations must be suggested or taught by the prior art. In

re Royka, 490 F.2d 981, 180 USPQ 580 (CCPA 1970). All words in a claim must

be considered in judging the patentability of that claim against the prior art. In re-

Wilson, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970).

Moreover, a showing of a suggestion, teaching, or motivation to combine the

prior art references is an "essential evidentiary component of an obviousness

holding." C.R. Bard, Inc. v. M3 Sys. Inc., 157 F.3d 1340, 1352, 48 USPQ2d 1225,

1232 (Fed. Cir. 1998). This showing must be clear and particular, and broad

conclusory statements about the teaching of multiple references, standing alone,

are not "evidence." See In re Dembiczak, 175 F.3d 994 at 1000, 50 USPQ2d 1614

at 1617 (Fed. Cir. 1999).

Kim discloses an LCD in which repair lines which are used as substitutes

for open-line data lines, are separately formed on either side of the gate lines and

on the same layer as the gate lines. In Kim, the repair lines are used only by

being connected to open data lines, and are used only to repair the broken (open

circuit) data lines by connection, not by disconnection.

Moreover, contrary to the assertions in the Office Action, Kim does not

disclose a gate dummy pattern. Rather, Kim discloses repair lines for data lines.

Kim's repair lines are <u>not</u> disclosed to be gate lines <u>nor</u> are Kim's repair lines

disclosed to be connected with gate lines. Kim's repair lines are only disclosed to

be connected with data lines.

The Office Action responds to these arguments by stating, on page 17 of the

outstanding Office Action, that Kim's line structures are well known in the art to

be that of "gate dummy patterns" despite the terminology as used by Kim, i.e., the

wording in col. 2, lines 10-17 because those structures are patterned from the

gate layer. The outstanding Office Action also references col. 8, lines 37-40 in this

regard to support its position. In actuality, col. 8, lines 37-40 constitute only part

of the Kim disclosure regarding the method of manufacturing its LCD. Col. 8,

lines 34-36 explicitly state that "[I]n this method, the secondary connecting

pattern connects the data line to the repair lines through the contact holes." Kim

goes on to state, at col. 8, lines 37-40 that "[A]s shown in Fig. 15A, a metal layer

for gate wires such as aluminum (Al) or Molybdenum (Mo) is deposited and

patterned to form the gate line 100 and the repair lines 110 and 120." Thus, the

language relied on in the Office Action does not support a conclusion that Kim

discloses gate dummy patterns.

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The Office Action then states that "intended use is not claimed." Applicants

do not understand what this has to do with rebutting Applicants' arguments

traversing the rejection. Moreover, because Applicants have positively recited

dummy data lines, the meaning of which is clear and that terminology has to be

given patentable weight. All words in a claim must be considered in judging the

patentability of that claim against the prior art. In re Wilson, 424 F.2d 1382,

1385, 165 USPO 494, 496 (CCPA 1970).

Song is directed to an LCD having a layout designed to repair defects such

as (1) disconnection of display signal lines and scanning signal lines, (2) shorting

of the pixel electrode and the signal line, and (3) loss of the electrode of a

switching element. See the Abstract of Song.

Instead of using a prior art repair line RL that crosses a plurality of

scanning lines (Fig. 5 of Song), Song uses left and right auxiliary scanning lines

connecting upper and lower first signal lines to form left and right boundaries of

each pixel region (paragraph bridging cols. 5 and 6 of Song), a second signal line

stretching in a vertical direction crossing upper and lower first signal lines, a

plurality of connect means connecting various upper and lower signal lines and

auxiliary signal lines. Moreover (col. 6, lines 45-49), Song prefers that its auxiliary

signal lines are connected to the upper first signal line or the lower first signal

line, and the upper and lower first signal lines and the auxiliary signal lines are

used as a capacitance electrode.

In other words, Song has a decidedly more complex and different LCD

matrix circuit layout than does Kim.

In one embodiment of Song (Figs. 19A and 19B), relied on in the Office

Action, Song repairs a specific defect, i.e., where "the data line D placed between a

diverging point of the contact portion 21 in a pixel PX1 and a diverging point of the

source electrode 7 of a pixel PX2 which is formed below the pixel PX1 is

disconnected (a) so that a data signal cannot be transferred to a portion following

the disconnected point. Here, the arrows shown in Figs. 19A and 19B represent

the flow of the signal." (col. 16, lines 1-8).

The repair relied on in the Office Action is discussed in col. 17, starting in

line 4. The repair includes respectively shorting (c and d) the drain electrode 8

and the gate electrode 2, and the gate electrode 2 and the source electrode 7 and

the two parts of the upper gate line of the pixel PX2, above and below the gate

electrode 2, are disconnected (e and j). As a result, the data signal comes to flow

along the data line again.

Based on these teachings of Kim and Song, the Office Action concludes that

it would have been obvious "to modify Kim with the redundancy electrodes for

electrically connecting the gate line to the broken data line per Song."

Applicants respectfully disagree with this conclusion for a number of

reasons.

In the first place, the Office Action provides no objective factual evidence to support a conclusion that one of ordinary skill in the art would be motivated to modify Kim's simple LCD matrix circuit to make it more complex by adding multiple, upper and lower, auxiliary signal lines and connect lines just to repair data lines when Kim has a far less complex and far simpler data line repair mechanism in place that has no disclosed need to be improved upon.

The Office Action responds by stating that the additional complexity of Sing would obviously increase the number of possible repairs that can be made because there are more available conductive lines to run signals in a greater number of ways, which would increase the facilitation of repairs, providing ample motivation to modify Kim in view of Song. Applicants might agree if all that was involved was a simple matter of hooking up a few more electrodes to an electronic device. However, what is involved here is a complete redesign of Kim's active matrix LCD, which is different in many respects from that of Song. For example, Kim discloses, in col. 2, lines 61-63 that an advantage of its device is that the repair lines and connecting patterns for repairing data line defects are formed without an additional process, which simplifies the manufacturing process. Applicants respectfully submit that the Office Action fails to present any objective factual evidence that modifying Kim in view of Song, as proposed, e.g., by adding multiple, upper and lower, auxiliary signal lines and connect lines would result in simplification of the manufacturing process. In fact, the Office Action is totally

devoid of any detain concerning exactly what manufacturing changes would be involved in making Kim admittedly more complex. Such details are left up to speculation. It is well settled that a rejection under 35 U.S.C. §103 cannot properly be based on speculation but must be based on objective factual evidence of record. See, In re Warner, 379 F.2d 1011, 1017, 154 USPQ 173, 178 (CCPA 1967), cert. denied, 389 U.S. 1057 (1968). See, also, In re GPAC, Inc., 35 USPO2d 1116 at 1123 (Fed. Cir. 1995) and Ex parte Haymond, 41 USPQ2d 1217 at 1220 (Bd. Pat. App. & Int. 1996).

A factual inquiry whether to modify a reference must be based on objective evidence of record, not merely conclusory statements of the Examiner. See, In re-Lee, 277 F.3d 1338, 1343, 61 USPQ2d 1430, 1433 (Fed. Cir. 2002).

Applicants respectfully submit that one of ordinary skill in the art would not be motivated to make Kim more complex, as suggested by the Office Action, because presumably that would require further manufacturing process steps and might well not be able to use the process steps set forth in connection with Figs. 15A through 15E, especially where, as here, the Office Action fails to explain exactly how Kim's disclosed manufacturing steps are to be modified in view of a reference (Song) that uses left and right auxiliary scanning lines connecting upper and lower first signal lines to form left and right boundaries of each pixel region (paragraph bridging cols. 5 and 6 of Song), a second signal line stretching in a vertical direction crossing upper and lower first signal lines, a plurality of connect means connecting various upper and lower signal lines and auxiliary signal lines.

Moreover (col. 6, lines 45-49), Song prefers that its auxiliary signal lines are

connected to the upper first signal line or the lower first signal line, and the upper

and lower first signal lines and the auxiliary signal lines are used as a capacitance

electrode, i.e., a decidedly more complex and different LCD matrix circuit layout

than does Kim.

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In the second place, not only is the relied upon (in Song) repair structure far

more complex than Kim's, but Song's repair technique is far more complex than

is Kim's. In Kim, if, for example, data line 400 is not connected to repair lines 110

and 120, the repair lines 110 and 120 are simply shorted to the data line 400 by

laser irradiation. On the other hand, in Song, as discussed above, one must not

only make two shorts (c and d), but also two disconnects (e and j) to repair the

data line.

Applicants respectfully submit that one of ordinary skill in the art would

have no proper motivation to add the aforementioned structural and procedural

complexity to Kim to achieve what Kim achieves with a far simpler structure and

procedure. In fact, this added structural and procedural complexity is objective

factual evidence that one or ordinary skill in the art would have a disincentive to

achieve the proposed modification of Kim in view of Song.

The Advisory Action states that complexity is not considered so daunting to

preclude combining the secondary references. Applicants respectfully disagree

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where additional costs of manufacturing such complex devices and a resulting more

time consuming repair process are taken into consideration, for example.

Applicants respectfully submit that the inferences one of ordinary skill in

the art would draw from Kim and Song include the disincentive to modify Kim by

making Kim more structurally complex in order to achieve what Kim does with a

far simpler structure, and the disincentive to require a more complicated and,

presumably, more time consuming procedure to repair data lines.

A reference may be said to teach away when a person of ordinary skill,

upon reading the reference, would be discouraged from following the path set out

in the reference, or would be led in a direction divergent from the path that was

taken by the applicant. See W.L. Gore & Assoc., Inc. v. Garlock, Inc., 721 F.2d

1540, 1550-51, 220 USPQ 303, 311 (Fed. Cir. 1983) (the totality of a reference's

teachings must be considered), cert. denied, 469 U.S. 851 (1984).

Moreover, the statement in the first sentence on page 11 of the Office

Action, i.e., that "[S]ong is evidence that ordinary workers in the art of liquid

crystals would find the reason, suggestion or motivation to form the gate dummy

pattern in such a manner as to serve as a redundancy electrode for electrically

connecting the gate line to the broken line to effect repairs" is nothing more than a

broad general conclusion that does not constitute evidence of proper motivation to

fundamentally redesign and make more complex a simple data line repair

structure and procedure like that of Kim that does not require connecting a gate

line to a data line.

The Office Action responds to this by stating that the dual gate lines of Song

merely add redundancy that would not confuse one of ordinary skill in the art.

Applicants respectfully submit that the issue of whether one of ordinary skill in

the art would not be confused is not the same as the issue of proper motivation to

modify a reference, and the Office Action fails to demonstrate the relevance of

whether one of ordinary skill in the art would be confused to the issue of proper

motivation. The fact that someone can clearly understand how a device works, for

example, has not been demonstrated to motivate a skilled worker to modify that

device.

To the extent that the Office Action argues that a primary reference virtually

never anticipates the need for improvement taught by the secondary reference,

and that anything can be improved, merely addresses the possibility of

improvement, not the desirability of doing so and, as such, is irrelevant to the

issue of proper motivation to modify one reference in view of another. Merely that

the prior art can be modified in the manner suggested by the Examiner does not

render the modification obvious unless the prior art suggests the desirability of

the modification. In re Fritch, 972 F.2d 1260, 1266, 23 USPQ2d 1780, 1783-4

(Fed. Cir. 1992).

Accordingly, the Office Action does not make out a prima facie case of proper

motivation to modify Kim as suggested and, thus, does not make out a prima facie

case of obviousness of the invention recited in independent claims 1 and 10.

Moreover, because dependent claims 3, 5, 6, 8, 21 and 22 depend from

claim 1, and claims 12, 15, 17, 23 and 24 depend from claim 10, claims 3, 5, 6, 8,

12, 15, 17 and 21-24 are not obvious at least for the reasons that claims 1 and 10

are not obvious, as stated above.

Reconsideration and withdrawal of this rejection of claims 1, 3, 5, 6, 8, 10,

12, 15, 17 and 21-24 under 35 U.S.C. §103(a) are respectfully requested.

Claim 25 stands rejected under 35 U.S.C. §103(a) as unpatentable over Kim

in view of Song, as applied in the rejection traversed above, and further in view of

U.S. Patent 5,657,101 to Cheng. This rejection is respectfully traversed.

In the first place, the Kim-Song reference combination is improper for the

Moreover, Cheng is not applied to remedy the reasons stated above.

aforementioned deficiencies in the Kim-Song reference combination. Accordingly,

this rejection is improper and should be withdrawn.

The Office Action admits that Kim in view of Song does not disclose gate

dummy patterns on both sides of a data line.

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To remedy this deficiency, the Office Action turns to Cheng. In Fig. 5,

Cheng discloses storage electrodes 52 slightly separated from data lines 59 and

storage electrodes 56 slightly separated from scan lines 40 (col. 4, lines 26-44).

The Office Action alleges that Cheng is evidence of motivation to add gate

dummy patterns on both sides of the data line to improve the aperture ratio.

Applicants do not understand why one of ordinary skill in the art would

turn to Cheng to improve Kim's aperture ratio because Kim already discloses

techniques to improve the aperture ratio and demonstrates no need to have its

aperture ratio improved in general, or by rearranging their circuit patterns.

Moreover, Cheng does not disclose its storage electrodes to be dummy gate lines.

In fact, Cheng discloses locating its storage electrodes to avoid co-planar shorts,

and not to be used as dummy gate lines in any way.

Applicants respectfully submit that one of ordinary skill in the art would

have no incentive to look to Cheng for any reason to modify Kim and Song, let

alone to redesign Kim-Song to provide dummy gate lines when there is no

incentive to provide dummy gate lines in Kim in view of Song, for the reasons

discussed above.

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Applicants respectfully submit that this rejection is wholly based on

improper hindsight reconstruction of Applicants' invention based solely on

Applicants' disclosure.

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Reconsideration and withdrawal of this rejection of claim 25 under 35

U.S.C. §103(a) are respectfully requested.

Claims 4, 7, 9, 13, 16 and 18 stand rejected under 35 U.S.C. §103(a) as

unpatentable over Kim in view of Song, as applied in the rejections traversed

above, and further in view of U.S. Patent 5,734,450 to Irie et al. (Irie). This

rejection is respectfully traversed.

In the first place, the Kim-Song reference combination is improper for the

reasons stated above. Moreover, Irie is not applied to remedy the aforementioned

deficiencies in the Kim-Song reference combination. Accordingly, this rejection is

improper and should be withdrawn.

Claims 4, 7, 9, 13, 16 and 18 recite a combination of features wherein the

gate dummy pattern includes a recess to permit repair to be made by

disconnection of the dummy pattern from the gate line.

Applicants respectfully submit that one of ordinary skill in the art would not

have any incentive to provide such a recess because one of ordinary skill in the art

would not have the incentive to provide for disconnection of repair lines in Kim

which only discloses connecting a repair line, not disconnecting a repair line.

Further, Applicants cannot find where Irie discloses a recess (or hole) as

recited to disconnect a line. The quoted (in the rejection) "narrow part 44," which

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is shown in Fig. 2, is just a narrow portion of the gate electrode 41 between the

gate electrode 41 and gate line 1. In no sense is it a hole or recess, as recited.

So, even if the improper Kim-Song reference combination were modified in

view of Irie, the resulting reference combination would not have a recess, as

recited.

The Office Action responds to this argument by stating that the recess is on

the left side of the narrow part, 44 that leads to the gate electrode 41, in Fig. 2.

Applicants respectfully disagree because Fig. 2 is a highly schematic diagram and

shows no structure whatsoever. The Office Action provides no objective factual

evidence of the existence of the recited recess in Fig. 2.

Further, with respect to claims 7 and 16, because the combined references

do not render obvious the claimed recess, they do not render obvious providing a

protrusion to cover the non-existent recess. Moreover, the Office Action fails to

explain how, if a protrusion covers a recess, one of ordinary skill in the art

uncovers the recess to make the recited disconnection. It appears to Applicants

that the proposed rejection achieves an inoperative device for the intended

purpose of disconnecting a line. In this regard, Applicants direct the Examiner's

attention to In re Sponnoble, 405 F.2d 578, 587, 160 USPQ 237, 244 (CCPA

1969), which indicates that references taken in combination teach away

when they would produce a "seemingly inoperative device."

Accordingly, this rejection of claims 4, 7, 9, 13, 16 and 18 under 35 U.S.C.

§103(a) is improper and should be withdrawn.

Lastly, the Office Action states, on page 20, that, insofar as Applicant has

not argued rationale for rejection of dependent claims, Applicant has thereby

acquiesced. Applicants do not understand this statement because Applicants

have traversed all outstanding rejections on their merits and have not acquiesced

in any of those rejections. Clarification is respectfully requested.

New Claims 26 and 27

Claim 26 depends from claim 1 and recites a specific ratio that is neither

disclosed nor suggested by the applied art of record. Support for this claim is

found in Applicants' originally filed disclosure including, for example, on page 9,

lines 15-21.

Claim 26 depends from claim 7 and support for this recited subject matter

is found, for example, on page 2, lines 18-21. Claim 26 is patentable at least

because of its dependency from claim 7, which is patentable at least for reasons

stated above.

CONCLUSION

All of the stated grounds of objection and rejection have been properly

traversed, accommodated, or rendered moot. It is believed that a full and

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complete response has been made to the outstanding Office Action, and that the

present application is in condition for allowance.

However, if there are any outstanding issues, the Examiner is invited to

telephone Robert J. Webster (Reg. No. 46,472) at (703) 205-8000 in an effort to

expedite prosecution.

If necessary, the Commissioner is hereby authorized in this, concurrent, and

future replies, to charge payment or to credit any overpayment to Deposit Account

No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17,

particularly extension of time fees.

Respectfully submitted,

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